# Regulatory Information Conference 2001 Deregulation Session W13

# CONSOLIDATION IN THE NUCLEAR ENERGY BUSINESS

Richard J. Myers

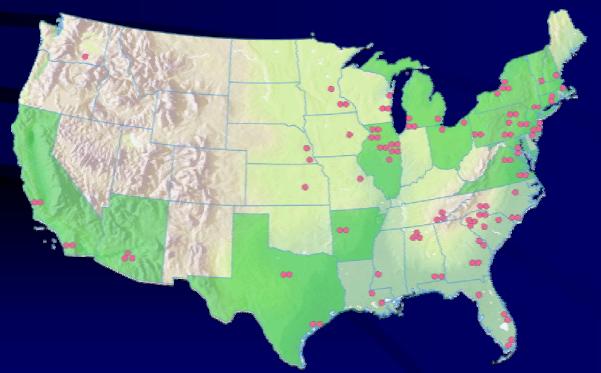
Senior Director, Business Policy

Nuclear Energy Institute

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### Restructuring Status

- ▶ 25 states and D.C. have restructured their electric power industry
- ▶ 16 of those states have operating nuclear plants (60 units)

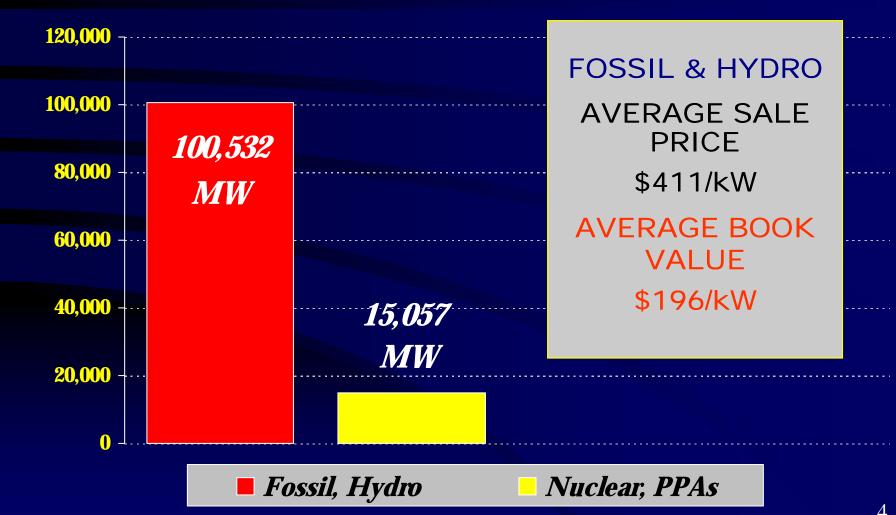


### Electric Industry Consolidation

- Since 1992, 91 mergers/acquisitions announced by investor-owned utilities:
  - 66 completed
  - 14 withdrawn
  - 11 pending

#### Divestiture of Generation

1996-February 2001

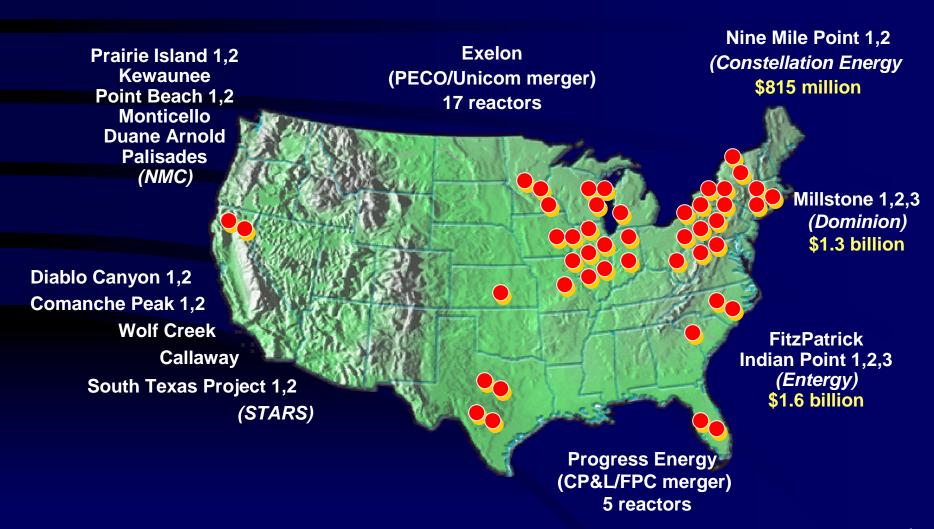


# Restructuring And Nuclear Energy: Generally Positive Outcome

#### State restructuring ...

- Opportunity to recover stranded costs
- Continued collection of decommissioning costs
- ► Incentives to divest generation = nuclear consolidation

### Industry Consolidation Continued in 2000



### Nuclear Consolidation: The Bottom Line

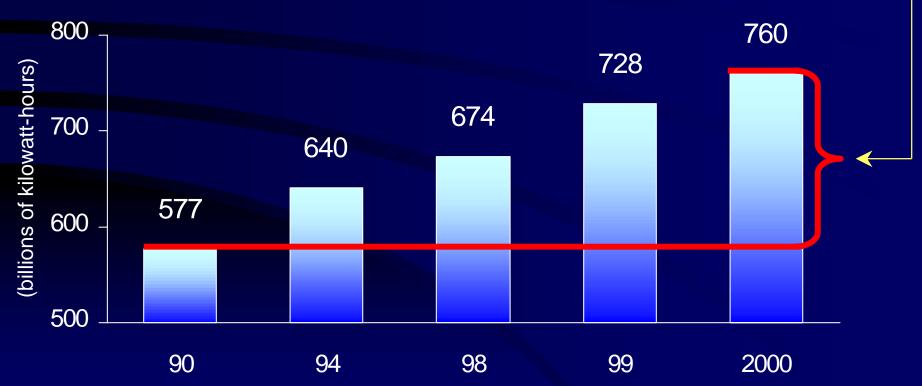
- Natural business response to competitive market and state restructuring
- Creating large generating companies with nuclear power as core business
- Occurring in all industry sectors:
  - Nuclear plant ownership, operating responsibility
  - Infrastructure (equipment, services, fuel supply)
- Result: safer, stronger, leaner industry going forward

### Industry Capacity Factor Reaches All-Time High



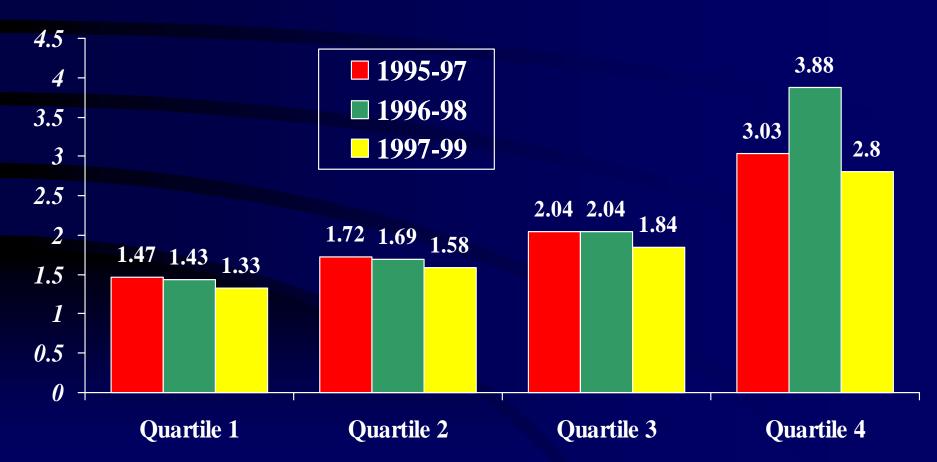
### Nuclear Plant Output: Growth During the 1990s

- ► Equivalent to 23 1,000-megawatt power plants
- Satisfied approximately 30% of growth in U.S. electricity demand



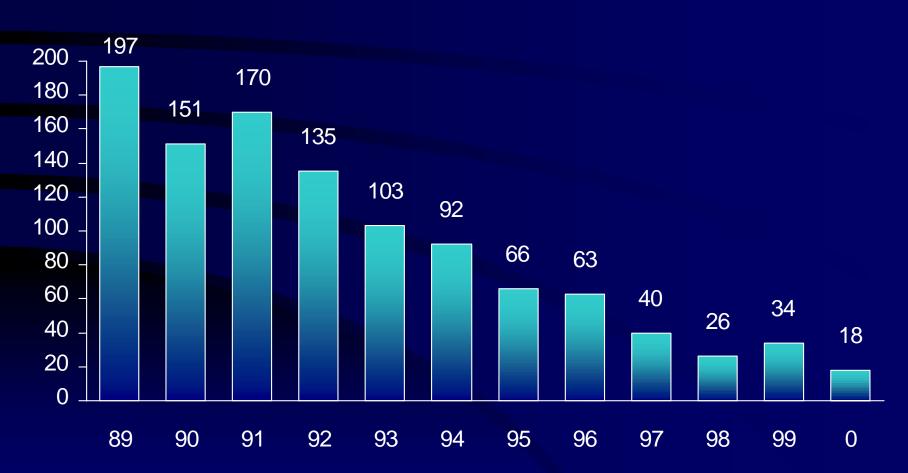
### Economic Performance: Consistent Improvement

(3-year rolling average production costs in cents per kilowatt-hour)



## Steady Improvement in Safety

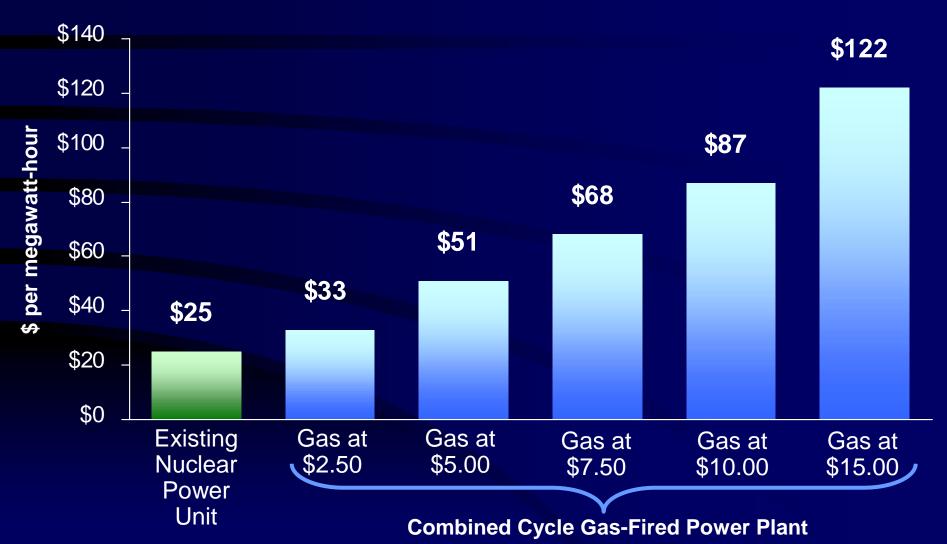
(Number of Unusual Events Reported to NRC)



## Nuclear Power Plants in Competitive Markets

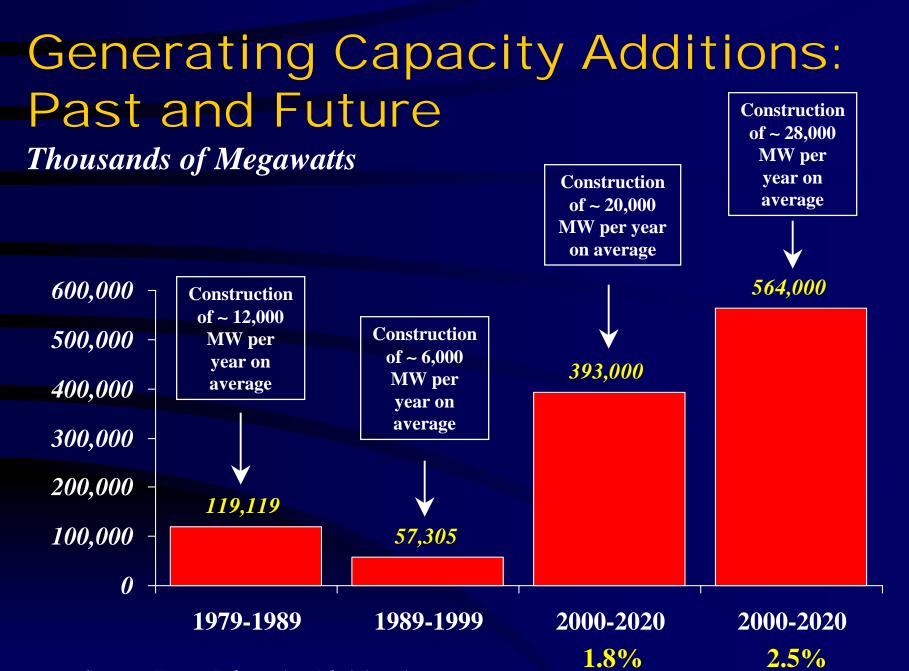
- ▶ Electricity business ...
  - significant price and supply volatility
  - massive uncertainty over clean air requirements
- Business climate reinforces value of existing nuclear plants ...
  - hedge against fossil fuel price/supply fluctuations
  - safeguard against escalating environmental requirements
- Business conditions justify serious planning for new nuclear plant construction in U.S.

### Rising Gas Prices = Dramatic Impact on Electricity Cost



#### The Rationale for New Nuclear Power Plants

- Growing electricity demand, need for new generating capacity
- Greater certainty in the licensing process
- Economics of new nuclear power plants are improving
- Industry consolidation = companies large enough to undertake large capital projects
- Significant political support



Source: Energy Information Administration

#### New Nuclear Power Plants: Competitive Position @ \$1,000/kWe

(First Year Electricity Cost in 2006\$)



#### U.S. Nuclear Generators:

### Joining the Top 50

Company	Market Cap. (billion \$)	End-2000 Rank	End-1999 Rank
Enron	64.4	5	9
Duke Energy	31.8	14	22
AES	25.4	17	28
Exelon	22.4	18	N/A
Southern	21.6	19	26
Dynegy	18.1	23	N/A
Dominion	15.9	31	N/A
AEP	15.0	33	N/A
FPL Group *	12.7	39	N/A
Calpine	12.7	40	N/A
Reliant	12.3	42	N/A
TXU	11.4	45	41
PSEG	10.4	49	N/A

<sup>\*</sup> If the FPL/Entergy merger had been consummated at year-end 2000, the merged company's market capitalization would have been \$21.8 billion.

#### New Nuclear Plants: Near-Term Activities

- ► Improve certainty of new licensing process
- Start licensing process to "bank" sites
- ▶ Begin NRC review of AP-1000
- Implement strategy to deploy Pebble Bed Modular Reactor

#### Consolidation: Necessary Steps

Late 1990s
103 Units ... ~40 Operators ... ~100 Owners



- ► Revise rules on financial qualifications
- ► Revise rules on decommissioning funding assurance
- ► License transfers: efficient process, timely decisions
- Disciplined licensing board proceedings



Consolidation Into
Nuclear Generating Companies,
Nuclear Operating Companies

### New Nuclear Power Plants: Necessary Steps

- Decommissioning funding assurance
- > Financial qualifications
- Modular reactors
  - Price-Anderson secondary protection
  - NRC license fees
- ► NRC antitrust role
- ► Tax treatment of decommissioning funds